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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/683,608	10/10/2003	Bruno Charles Nadd	IR-2398 (2-3714)	1030

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EXAMINER	
ZWEIZIG, JEFFERY SHAWN	
ART UNIT	**PAPER NUMBER**
2816	

DATE MAILED: 02/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/683,608	NADD ET AL.	
	Examiner	Art Unit	
	Jeffrey S. Zweizig	2816	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on *18 January 2005*.

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) *1-23* is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) *1-23* is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on *02 February 2004* is/are: a)☒ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a)☐ All b)☐ Some * c)☐ None of:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☐ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

Previous Rejections

1. In considering Applicants' claims, amendments and comments, the previous rejections are withdrawn in favor of the following.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

> The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-11, 13-15, 22 and 23 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Insofar as understood, the MOSFET device recited in claim 1 is directed toward MOSFETs 200A and 200B as shown in Fig. 3. The MOSFET device collectively has two gates. The disclosure does support a singular MOSFET device gate as recited in claims 1 and 2. Claims 1 and 2 are not properly enabled.

Claims 3 and 4 are not properly enabled as depending from claim 2.

Claims 13 and 14 have the same problem.

Insofar as understood, claim 5 is directed toward Fig. 5A. There is no support for an amplifier and offset comparator. Claim 5 and dependent claim 22 are not properly enabled. Examiner suggests that the amplifier comprises an offset comparator.

Claims 15 and 23 have the same problem.

Insofar as understood, claim 6 is directed toward Fig. 3. Fig. 3 discloses a MOSFET 200A or a MOSFET 200B. Neither of the two MOSFETs exhibit the resistance parameters defined in claim 6. Claim 6 is not properly enabled. Examiner suggests changing "MOSFET" to --MOSFET device--. Claims 7-11 should be revised accordingly to clearly differentiate between the two MOSFETs and the MOSFET device that comprises the two MOSFETs.

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

> The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 3 12-14, 20 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Schmidt triggers are singular components such as Schmidt trigger 100A or Schmidt trigger 100B as shown, for example, in Applicants' Fig. 3. It is not understood how one Schmidt trigger can become two Schmidt triggers as recited in claim 3. Claim 3 is indefinite.

Claim 14 has the same problem. Claim 14 is indefinite.

The terminology in claim 12 is inconsistent. In line 1, "MOSFET" should be --MOSFET device--. In line 2, "MOSFET device" should be --MOSFET--. These changes are consistent with lines 4-6. Claim 12 is indefinite.

Claims 13 and 14 are indefinite as depending from claim 12.

In claims 20 and 21 it is not clearly understood what aspect of the MOSFET's sensitivity is reduced relative to variations in Vds voltage thresholds. Nor is it understood toward what the thresholds refer (i.e. thresholds of what?). Examiner suggests claim language that is less vauge.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

> A person shall be entitled to a patent unless –
>
> (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 16, 17 and 19-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Edlund (USPN 4,417,164).

Fig. 2 discloses a rectifying MOSFET device 28, feedback signals at the drain and source, a gate control circuit 30 and a reference voltage B1 or B2 functioning as recited in claims 16 and 17. The reference voltage contributes to the closed loop control at the negative input to the control circuit and has linear gain as recited in claims 16 and 17.

The circuit likewise performs the method recited in claim 19.

As best understood, Fig. 2 discloses a circuit that has reduced sensitivity related to variations in Vds voltage thresholds as further recited in claims 20 and 21.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey S. Zweizig whose telephone number is (571) 272-1758. The examiner can normally be reached on Monday thru Thursday 6:00 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy P. Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey S. Zweizig
Primary Examiner
Art Unit 2816

JZ